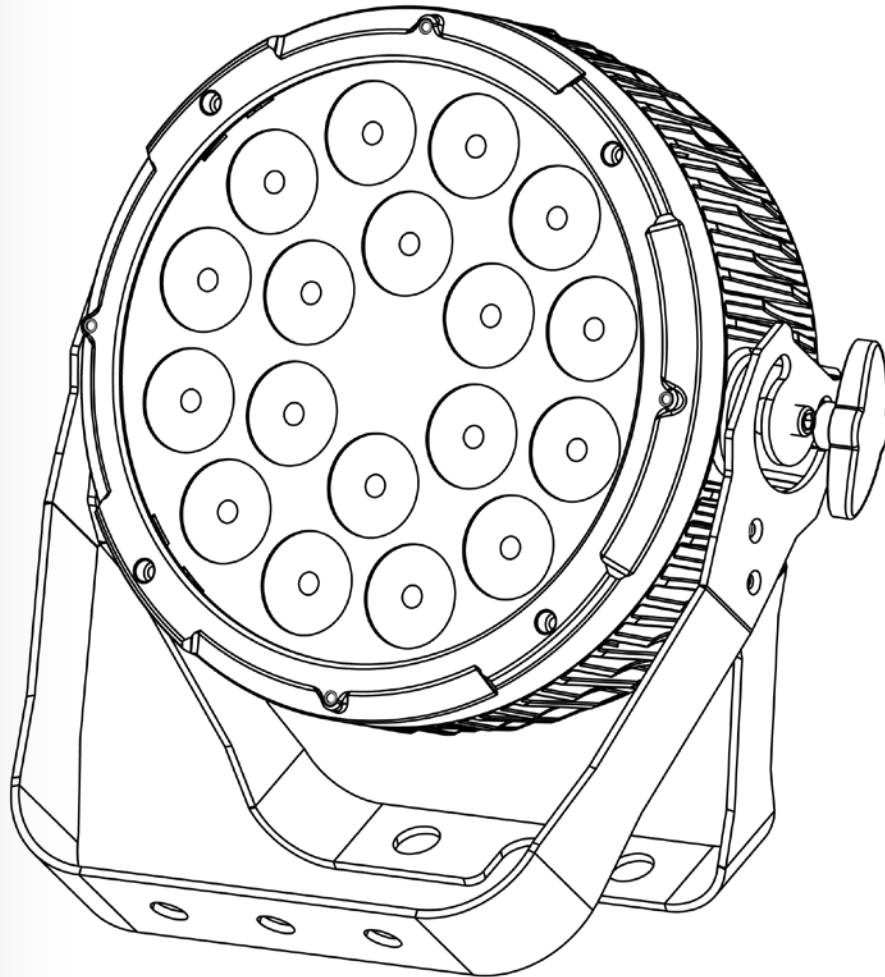# COLORdash™ Par-Tri 18VW

User Manual

Edition Notes

This User Manual Rev. 2 covers the description, safety precautions, installation, programming, operation, and maintenance of the COLORdash™ Par-Tri 18VW.

CHAUVET® released this edition of the COLORdash™ Par-Tri 18VW User Manual Rev. 2 in December 2013.

Trademarks

CHAUVET® is a registered trademark of CHAUVET & Sons Inc. (d/b/a CHAUVET® or Chauvet). The CHAUVET® logo in its entirety including the CHAUVET® name and the dotted triangle, and all other trademarks in this manual pertaining to services, products, or marketing statements (example: It's Green Thinking™) are owned or licensed by CHAUVET®. Any other product names, logos, brands, company names, and other trademarks featured or referred to within this document are the property of their respective trademark holders.

Copyright Notice

CHAUVET® owns the content of this User Manual Rev. 2 in its entirety, including but not limited to pictures, logos, trademarks, and resources.

© Copyright 2013 CHAUVET®. All rights reserved.

Electronically published by CHAUVET® in the United States of America.

Manual Use

CHAUVET® authorizes its customers to download and print this manual for professional information purposes only. CHAUVET® expressly prohibits the usage, copy, storage, distribution, modification, or printing of this manual or its content for any other purpose without written consent from CHAUVET®.

Document Printing

For better results, print this document in color, on letter size paper (8.5 x 11 in), double-sided. If using A4 paper (210 x 297 mm), configure your printer to scale the content accordingly.

Intended Audience

Any person in charge of installing, operating, and/or maintaining this product should completely read through the guide that shipped with the product, as well as this manual, before installing, operating, or maintaining this product.

Disclaimer

CHAUVET® believes that the information contained in this manual is accurate in all respects. However, CHAUVET® assumes no responsibility for any errors or omissions in this document. CHAUVET® reserves the right to revise and make changes to the content of this document without obligation that CHAUVET® notify any person or company of such revision or changes. This does not in any way constitute a commitment by CHAUVET® to make such changes. CHAUVET® may issue a revision of this manual or a new edition to incorporate such changes.

Author	Date	Editor	Date
D. Couppe	12/12/13	A. Leon	12/12/13

Table of Contents

1. Before You Begin

What Is Included
- COLORdash™ Par Tri-18 VW
- powerCON® power cord
- Accessory holder
- Gel frame
- Warranty card
- Quick Reference Guide

Claims   Carefully unpack the product immediately and check the box to make sure all the parts are in the package and are in good condition.

If the box or the contents (the product and included accessories) appear damaged from shipping or show signs of mishandling, notify the carrier immediately, not CHAUVET®. Failure to report damage to the carrier immediately may invalidate your claim. In addition, keep the box and contents for inspection.

For other issues, such as missing components or parts, damage not related to shipping, or concealed damage, file a claim with CHAUVET® within 7 days of delivery.

Manual Conventions

Convention	Meaning
1~512	A range of values in the text
50/60	A set of mutually exclusive values in the text
<SET>	A button on the product's control panel
Settings	A product function or a menu option
MENU>Settings	A sequence of menu options
1~10	A range of menu values from which to choose in a menu
Yes/No	A set of two mutually exclusive menu options in a menu
ON	A unique value to be entered or selected in a menu

Symbols

Symbols	Meaning
⚠	Critical installation, configuration, or operation information. Failure to comply with this information may cause the product not to work, damage third-party equipment, or cause harm to the operator.
ⓘ	Important installation or configuration information. Failure to comply with this information may keep the product from working.
📝	Useful information.

📝 The term "DMX" used throughout this manual refers to the USITT DMX512-A digital data transmission protocol.

Safety Notes

Read all the following Safety Notes before working with this product. These notes include important information about the installation, usage, and maintenance of this product.

⚠

This product contains no user-serviceable parts. Any reference to servicing in this User Manual Rev. 2 will only apply to properly trained CHAUVET® certified technicians. Do not open the housing or attempt any repairs.

ⓘ

All applicable local codes and regulations apply to proper installation of this product.

Personal Safety

· Avoid direct eye exposure to the light source while the product is on.
· Always disconnect this product from power before servicing.
· Always connect this product to a grounded circuit to avoid the risk of electrocution.
· Do not touch this product's housing when operating because it may be hot.

Mounting and Rigging

· DO NOT operate this product outdoors or in any location where dust, excessive heat, water, or humidity may affect it.
· When hanging this product, always secure to a fastening device using a safety cable.
· Always use the hanging/mounting bracket to carry this product.
· Do not leave any flammable material within 50 cm of this product while operating.

Power and Wiring

· Always make sure you are connecting this product to the proper voltage in accordance with the specifications in this manual or on the product's specification label.
· Never connect this product to a dimmer pack or rheostat.
· Never disconnect this product by pulling or tugging on the power cable.

Operation

· Do not operate this product if you see damage on the housing, lenses, or cables. In any of these cases, have the damaged parts replaced by an authorized technician at once.
· Do not cover the ventilation slots when the product is operating to avoid internal overheating.
· The maximum ambient temperature (Ta) is 104 °F (40 °C). Do not operate this product at a higher temperature.
· In case of a serious operating problem, stop using this product immediately!

In the unlikely event that your CHAUVET® product may require service, contact CHAUVET® Technical Support.

Expected LED Lifespan

LEDs gradually decline in brightness over time, mostly because of heat. Packaged in clusters, LEDs exhibit higher operating temperatures than in ideal, single-LED conditions. For this reason, using clustered LEDs at their fullest intensity significantly reduces the LEDs' lifespan. Under normal conditions, this lifespan can be 40,000 to 50,000 hours. If extending this lifespan is vital, lower the operating temperature by improving the ventilation around the product and reducing the ambient temperature to an optimal operating range. In addition, limiting the overall projection intensity may also help to extend the LEDs' lifespan.

2. Introduction

Description   The COLORdash™ Par-Tri 18VW is powered by 18 tri-colored CW LEDs in a compact and durable housing. A split-yoke bracket eliminates the need for floor stands. Power linking, as well as 3- and 5-pin DMX connectors simplify connections and setup. The COLORdash™ Par Tri-18 also includes an accessory holder and a gel frame.

Features   · Operating modes:
- · 2-channel: WW, CW
- · 3-channel: Dimmer, WW, CW
- · 7-channel: Dimmer, WW, CW, strobe, auto, auto speed, dim mode
- · Silent flicker free operation
- · Lightweight, easy to install
- · 16 bit dimming with selectable dimming curves
- · Pre-built auto programs
- · All metal construction for added durability
- · Even distribution of light

Overview

Adjustment Handle

Double Bracketed Yoke

Side View

Front View

Control Panel

3- and 5-Pin DMX In/Out

Safety Cable Loop

Power In/Out

Fuse

Top View

Rear View

Dimensions

11.73 in
298 mm

9.45 in
240 mm

12.72 in
323 mm

4.19 in
106.3 mm
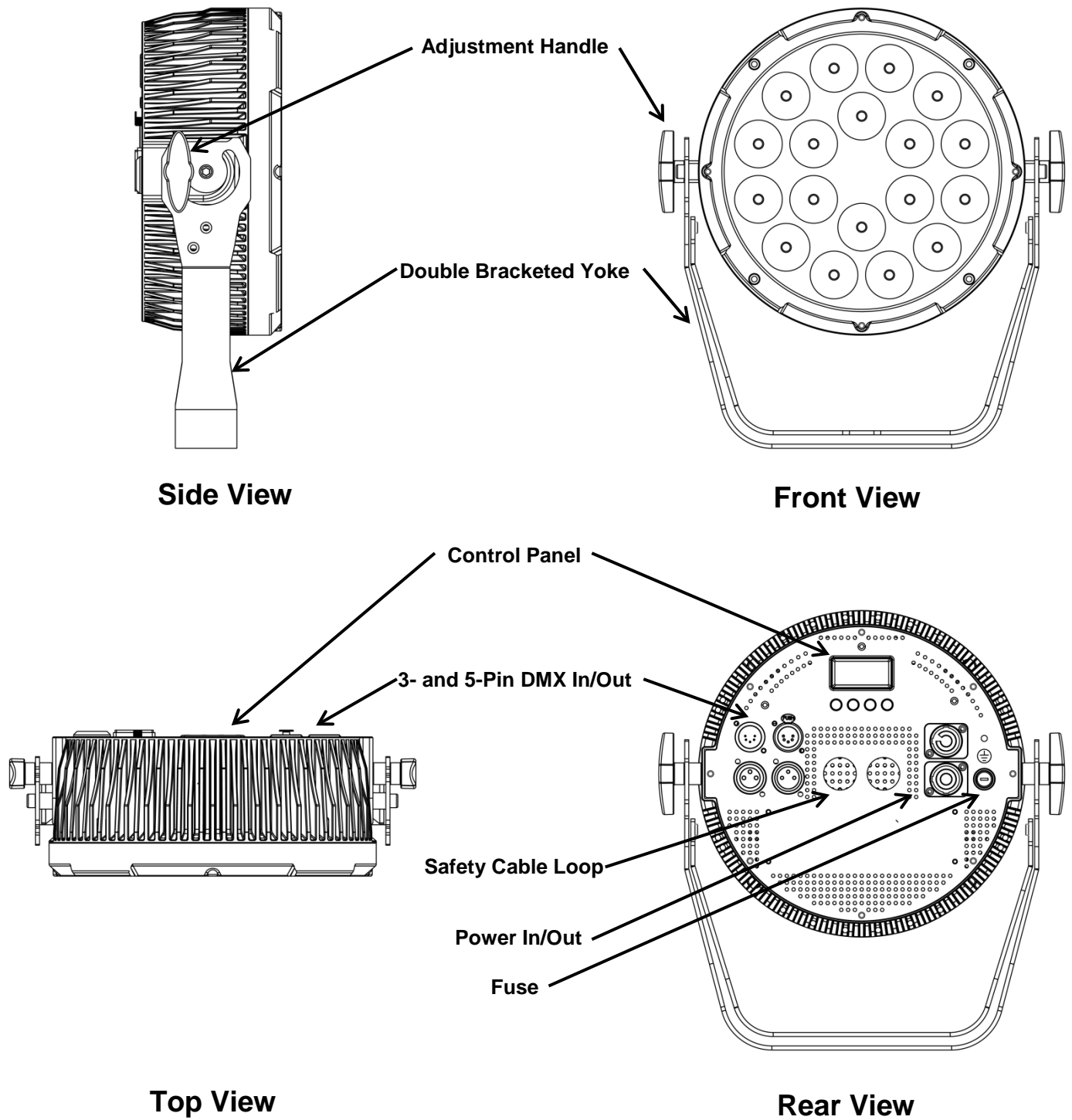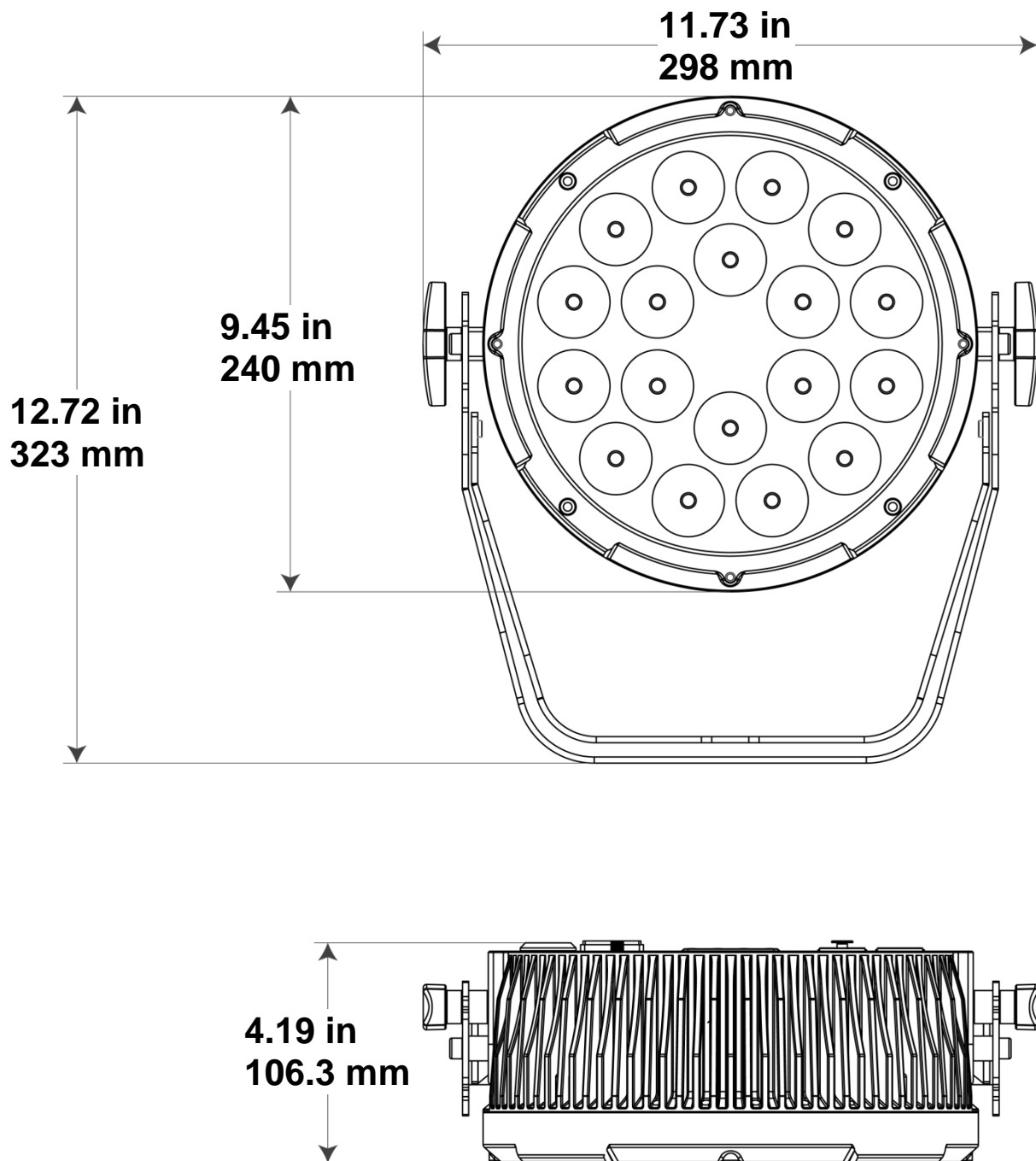
3. Setup

AC Power The COLORdash™ Par-Tri 18VW has an auto-ranging power supply that works with an input voltage range of 100~240 VAC, 50/60 Hz. To determine the power requirements for each COLORdash™ Par-Tri 18VW, refer to the label affixed to the product. You can also refer to the Technical Specifications section in this manual.

The listed current rating indicates the maximum current draw during normal operation. For more information, you may download *Sizing Circuit Breakers* from the CHAUVET® website: www.chauvetpro.com.

Always connect this product to a protected circuit with an appropriate electrical ground to avoid the risk of electrocution or fire.

Never connect this product to a rheostat (variable resistor) or dimmer circuit, even if the rheostat or dimmer channel serves only as a 0 to 100% switch.

AC Plug The COLORdash™ Par-Tri 18VW comes with a power input cord terminated with a Neutrik® powerCON® connector on one end, and an Edison plug on the other end (U.S. market). If the power input cord that came with your product has no plug or if you need to change the Edison plug, use the table below to wire the new plug.

Connection	Wire (U.S.)	Wire (Europe)	Screw Color
AC Live	Black	Brown	Yellow or Brass
AC Neutral	White	Blue	Silver
AC Ground	Green/Yellow	Green/Yellow	Green

Power Linking The Nexus™ 2x2 supports power linking. You can power link up to:

· 15 products at 120 VAC, or
· 28 products at 230 VAC

This product comes with a power input cord. This product does not come with a power linking cable; however, a power linking cable is available as an option.

Make sure to disconnect the product's power cord before replacing a blown fuse. Always replace the blown fuse with another of the same type and rating.

Fuse Replacement
1. Disconnect the product from the power outlet.
2. With a flat head screwdriver, unscrew the fuse holder cap from its housing.
3. Remove the blown fuse and replace it with a good fuse of the same type and rating (T 2 A @ 250 V).
4. Screw the fuse holder cap back in its place and reconnect power.

DMX Linking

You can link the COLORdash™ Par-Tri 18VW to a DMX controller using a standard DMX serial connection. If using other DMX compatible products with the COLORdash™ Par-Tri 18VW, you can control each individually with a single DMX controller.

DMX Modes

The COLORdash™ Par-Tri 18VW uses the standard DMX data connection for its **2 Ch, 3 Ch,** and **7 Ch** DMX modes.

- · Refer to the Introduction section for a brief description of these modes.
- · Refer to the Operation section to learn how to configure the COLORdash™ Par-Tri 18VW to work in these modes.
- · The DMX Values section provides you with detailed information regarding the DMX modes.

Master/Slave Connectivity

The Master/Slave mode allows a COLORdash™ Par-Tri 18VW (master product) to control one or more products (slave products) without a DMX controller.

One COLORdash™ Par-Tri 18VW becomes the master product either when running in static mode or when using the automatic (Auto) programs.

In addition, you must configure each of the slave products (via control panel) to operate in Slave mode. During Master/Slave operation, the slave products will operate in unison with the master product.

For more information, see the Menu Map section.

Do not connect a DMX controller to products operating in Master/Slave mode. The DMX controller signals may interfere with the signals from the master product.

- · The Operation section of this manual provides detailed instructions on how to configure the Master and Slave products.
- · If you need more information about DMX standards, Master/Slave connectivity, or the DMX cables needed in order to link the product to a DMX controller, download the *DMX Primer* from the CHAUVET® website: www.chauvetpro.com..

Mounting

Before mounting this product, read and follow the [Safety Notes](#).

Orientation

Always mount this product in a safe position and make sure there is adequate room for ventilation, configuration, and maintenance.

Rigging

The COLORdash™ Par-Tri 18VW consists of a double-yoke bracket and the body of the product. CHAUVET® recommends using the following general guidelines when mounting this product.

- When selecting an installation location, consider easy access to this product for operation, programming adjustments, and routine maintenance.
- Make sure to mount this product away from any flammable material as indicated in the [Safety Notes](#).
- Never mount in places where rain, high humidity, extreme temperature changes, or restricted ventilation may affect the product.
- If hanging this product, make sure that the mounting location can support the product's weight. See the [Technical Specifications](#) for the weight-bearing requirements of this product.
- When hanging this product, always secure to a fastening device using a safety cable (included).

Procedure

The COLORdash™ Par-Tri 18VW comes with a double-yoke bracket to which you can either attach mounting clamps for hanging or simply use as a floor stand. You must supply your own mounting clamps. Make sure the clamps are capable of supporting the weight of this product. Use at least one mounting point per product.

Mounting Diagram
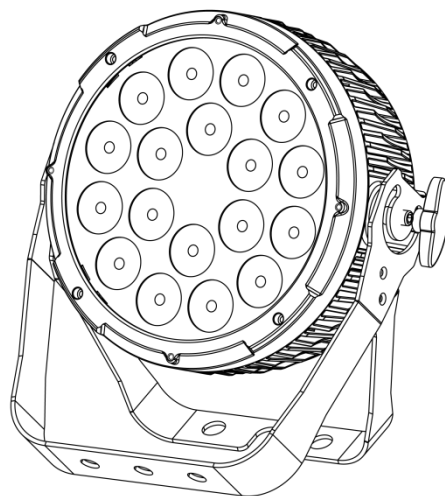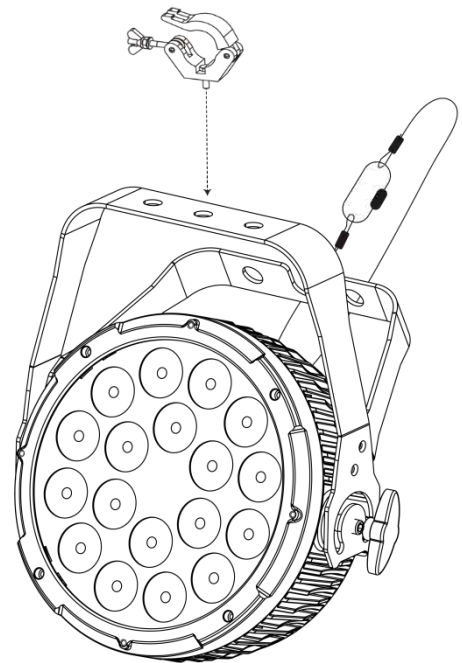
Floor Mounting   **Overhead Mounting**

4. Operation

Control Panel Description

Button	Function
<MENU>	Exits from the current menu or function
<ENTER>	Enables the currently displayed menu or sets the currently selected value in to the current function
<UP>	Navigates upward through the menu options and increases the numeric value when in a function
<DOWN>	Navigates downward through the menu options and decreases the numeric value when in a function

Control Options

You can set the COLORdash™ Par-Tri 18VW starting address in the 001 to 512 DMX range. This enables control of up to 73 products in the 7-channel **7 Ch** personality.

Programming

Refer to the Menu Map section to fully understand the menu options. The menu map shows the main level and a variable number of programming levels for each option.

· To go to the desired main level, press **<MENU>** repeatedly until the option shows on the display. Press **<ENTER>** to select. This will take you to the first programming level for that option.

· To select an option or value within the current programming level, press **<UP>** or **<DOWN>** until the option shows on the display. Press **<ENTER>** to select. In this case, if there is another programming level, you will see that first option, or you will see the selected value.

· Press **<MENU>** repeatedly to exit to the previous main level.

DMX Personality

This setting allows you to choose a particular DMX personality.

1. Go to the **Channel** main level.
2. Select the desired personality (**2 Ch, 3 Ch,** or **7 Ch**).

For the highest starting address you can select for each personality, see the DMX Values section. Verify that the starting addresses on the products do not overlap due to the new personality setting.

DMX Control

In this mode, each product will respond to a unique starting address from the DMX controller. All products with the same starting address will respond in unison. Highest DMX address is limited by the DMX Personality that is assigned.

1. Select a DMX personality as shown in DMX Personality.
2. Set the running mode:
   a. Go to the **M&S Mode** main level.
   b. Select **Slave**.
3. Set the starting address:
   a. Go to **Address** main level.
   b. Select the starting address (**001~511**).

The highest recommended starting address for each DMX mode are as follows:

DMX Mode	DMX Address
2 Ch	511
3 Ch	510
7 Ch	506

Static Color The Static Color mode allows for permanent white color mixing without a DMX controller.
1. Go to the **Static** main level.
2. Select **Fix C** or **Manu C**.
   a. **Fix C:**
      i. Select **W** for warm white LEDs at 100%
      ii. Select **C** for cool white LEDs at 100%
      iii. Select **CW** for all LEDs at 100%
   b. **Manu C:**
      i. Select **W** for warm white LEDs or **C** for cool white LEDs.
      ii. Select the desired color value (**Value 000~255**).
      iii. Repeat the steps for the other color.

Auto Programs Auto programs allow for dynamic CW color mixing without a DMX controller.
1. Go to **Auto**.
2. Select the desired auto (**Auto 1~5**) program.
3. Select the desired speed at which the chosen program will run (**Speed 000~100**).
You cannot edit any of the auto programs (**Auto 1~5**).

Product Information This menu option provides software information and product testing
1. Go to the **Info** main level.
2. Select the desired **program level** based on the information required.
   a. **Fixture Hours** – Displays the amount of time the product has been in use.
   b. **Version** – Displays the software version installed on the product.
   c. **Auto>Test**- Turns on all LEDs in sequence for testing.

Master/Slave The Master/Slave mode allows a group of COLORdash™ Par-Tri 18VWs (slave products) to simultaneously duplicate the output of another COLORdash™ Par-Tri 18VW (master product) without a DMX controller.
1. Set each of the slave products:
   a. Go to **M&S Mode**.
   b. Select **Slave**.
2. Set the master product:
   a. Go to **M&S Mode**.
   b. Select **Master**.
   c. Select an Auto or Static program as explained in Auto Programs.

· The master product is the one that runs a program whether in Auto or Static Color mode.
· Do not connect a DMX controller to the products configured for Master/Slave operation. The DMX controller may interfere with signals from the master product.
· The master product should be the first product in the daisy chain.

White Balance The White Balance setting determines how the product generates the white color by setting limits on the cool and warm white LED settings.
1. Go to the **White Balance** main level.
2. Select **W** to set limits for the warm white LEDs or **C** for the cool white LEDs.
3. Select the desired color value (**Value 000~255**)
4. Repeat the steps for the other color.

Display Backlight   This setting determines how long the backlight on the display will stay on.

1. Go to the **BackLite** main level.
2. Select the desired amount of time the backlight display will stay on after pressing the last menu button (**On**, **10 S**, **20 S**, or **30 S**).

Dimmer Curves   This setting provides you with four options to simulate the dimming curve of an incandescent light product.

1. Go to the **Dim Mode** main level.
2. Select the desired dimmer curve (**OFF**, **DIM1**, **DIM2**, or **DIM3**).

OFF	The output is proportional (linear) to the dimmer and CW channel values.
DIM1~3:	The output follows the dimmer and CW channel values based on the corresponding dimmer curve, being **DIM1** the fastest and **DIM3** the slowest.

Menu Map

Main Level	Programming Levels			Description
Auto	**Auto 1~5**	**Speed**	**000~100**	5 automatic programs
Static	**Fix C**	**W**		Warm white
		C		Cool white
		CW		Cool/warm white
	Manu C	**W**	**Value** **000~255**	Combines cool white and warm white to make a custom white color
		C		
Dim Mode	**Off**			No dimmer
	DIM 1~3			Dimmer curve
BackLite	**10S**			Turns off display backlight after 10 sec of inactivity
	20S			Turns off display backlight after 20 sec of inactivity
	30S			Turns off display backlight after 30 sec of inactivity
	On			Display backlight always on
Info	**Auto**	**Test**		Turns on all LEDs in sequence for testing
	FixHours			Shows total operating hours
	Version			Shows installed software version
Address	**001~511**			Selects DMX address (highest channel restricted to personality chosen)
Channel	**2 Ch**			2-channel: C/W control
	3 Ch			3-channel: C/W, dimmer
	7 Ch			7-channel: C/W, dimmer, strobe, auto programs, dimmer speed, auto speed
M&S Mode	**Master**			DMX mode
	Slave			Slave mode
White Balance	**W**	**Value**	**125~255**	Sets white LED maximum value
	C			Sets cool LED maximum value

DMX Values

7 Ch

Channel	Function	Value	Percent/Setting
1	Dimmer	000 ó 255	0~100%
2	Warm White	000 ó 255	0~100%
3	Cool White	000 ó 255	0~100%
4	Strobe	000 ó 010 011 ó 255	No function Slow to fast
5	Auto Programs	000 ó 051 052 ó 101 102 ó 152 153 ó 203 204 ó 254 255	No function Auto 1 Auto 2 Auto 3 Auto 4 Auto 5
6	Auto Speed	000 ó 255	Slow to fast
7	Dimmer Speed	000 ó 051 052 ó 101 102 ó 152 153 ó 203 204 ó 255	Preset dimmer speed from display menu Linear dimmer Nonlinear dimming curve 1 (fastest) Nonlinear dimming curve 2 Nonlinear dimming curve 3 (slowest)

3 Ch

Channel	Function	Value	Percent/Setting
1	Dimmer	000 ó 255	0~100%
2	Warm White	000 ó 255	0~100%
3	Cool White	000 ó 255	0~100%

2 Ch

Channel	Function	Value	Percent/Setting
1	Warm White	000 ó 255	0~100%
2	Cool White	000 ó 255	0~100%

5. Technical Information

Product Maintenance
To maintain optimum performance and minimize wear, you should clean this product frequently. Usage and environment are contributing factors in determining the cleaning frequency.

As a rule, clean this product at least twice a month. Dust build-up reduces light output performance and can cause overheating. This can lead to reduced light source life and increased mechanical wear.

To clean your product:

- Unplug the product from power.
- Wait until the product is at room temperature.
- Use a vacuum (or dry compressed air) and a soft brush to remove dust collected on the external vents and accessible internal components.
- Clean all external surfaces with a mild solution of non-ammonia glass cleaner or isopropyl alcohol.
- Apply the solution directly to a soft, lint-free cotton cloth or a lens cleaning tissue.
- Wipe any dirt or grime to the outside edges of the lens surface.
- Gently polish the lens surfaces until they are free of haze and lint.

Always dry the external surfaces thoroughly and carefully after cleaning them.

Returns
You must send the product prepaid, in the original box, and with the original packing and accessories. CHAUVET® will not issue call tags.

Call CHAUVET® and request a Return Merchandise Authorization (RMA) number before shipping the product. Be prepared to provide the model number, serial number, and a brief description of the cause(s) for the return.

Clearly label the package with an RMA number. CHAUVET® will refuse any product returned without an RMA number.

Do not write the RMA number directly on the box. Instead, write it on a properly affixed label.

Once you have received the RMA number, include the following information on a piece of paper inside the box:

- Your name
- Your address
- Your phone number
- The RMA number
- A brief description of the problem(s)

Be sure to pack the product properly. Any shipping damage resulting from inadequate packaging will be the customer's responsibility. FedEx packing or double-boxing are recommended.

CHAUVET® reserves the right to use its own discretion to repair or replace returned product(s).

Technical Specifications

Dimensions and Weight

Length	Width	Height	Weight
12.7 in (323 mm)	11.7 in (298 mm)	4.1 in (106 mm)	10.2 lb (4.6 kg)

Note: Dimensions in inches rounded to the nearest decimal digit.

Power

Power Supply Type	Range	Voltage Selection
Switching (internal)	100 to 240 V, 50/60 Hz	Auto-ranging

Parameter	120 V, 60 Hz	230 V, 50 Hz
Consumption	89 W	92 W
Operating current	0.75 A	0.40 A
Power linking	15 products	28 products
Fuse	2 A, 250 V	2 A, 250 V

Power I/O	U.S./Worldwide	Europe
Power input connector	Neutrik® powerCON® A	Neutrik® powerCON® A
Power output connector	Neutrik® powerCON® B	Neutrik® powerCON® B
Power cord plug	Edison (U.S.)	Local plug

Light Source

Type	Power	Lifespan
LED	5 W	50,000 hours

Color	Quantity	Current
Tri-color (2 WW and 1 CW)	18	500 mA

Photo Optic

Parameter	Standard Optics
Illuminance @ 5 m	754 lx
Beam angle	20°
Field angle	39°

Thermal

Max. External Temperature	Cooling System
104 °F (40 °C)	Convection

DMX

I/O Connectors	Connector Type	Channel Range
3- and 5-pin XLR	Sockets	2, 3 or 7

Ordering

Product Name	Item Code	UPC Number
COLORdash™ Par-Tri 18VW	03030714	781462210625

Contact Us

WORLD HEADQUARTERS - CHAUVET®

General Information

Address: 5200 NW 108th Avenue
Sunrise, FL 33351
Voice: (954) 577-4455
Fax: (954) 929-5560
Toll free: (800) 762-1084

Technical Support

Voice: (954) 577-4455 (Press **4**)
Fax: (954) 756-8015
Email: tech@chauvetlighting.com

World Wide Web www.chauvetlighting.com

UNITED KINGDOM AND IRELAND - CHAUVET® Europe Ltd.

General Information

Address: Unit 1C
Brookhill Road Industrial Estate
Pinxton, Nottingham, UK
NG16 6NT
Voice: +44 (0)1773 511115
Fax: +44 (0)1773 511110

Technical Support

Email: uktech@chauvetlighting.com

World Wide Web www.chauvetlighting.co.uk

MEXICO - CHAUVET® Mexico

General Information

Address: Av. Santa Ana 30
Parque Industrial Lerma
Lerma, Mexico C.P. 52000
Voice: +52 (728) 285-5000

Technical Support

Email: servicio@chauvet.com.mx

World Wide Web www.chauvet.com.mx

Outside the U.S., United Kingdom, Ireland, or Mexico, contact your dealer. Follow their instructions to request support or to return a product. Visit our website for contact details.

RoHS

CE

MET
c   ®   us

UL 1573
CSA C22.2 No. 166
E113093